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HANDLE VIA
TALENT-KEYHOLE
CONTROL SYSTEM ONLY

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TCS-8690-6
8 June 1961

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MEMORANDUM FOR: Chairman, Deployment Working Group, GMAIC

SUBJECT: Soviet ICBM Site Orientations

REFERENCE: GMAIC Requirement GMAIC DWG 37-5
(NPIC Project 11291-5)

1. This memorandum is in answer to your requirement which requests azimuth orientations from true north for all deployed Soviet ICBM sites.

2. Photography used on this project was selected from those missions having the most complete orbital parameter data, but in some instances, other than optimum missions were used.

25X1D

3. All azimuths are given exactly as computed and are considered to be accurate within [REDACTED] for all site types except types IIIC and IIID which are considered to be accurate within plus/minus 5 degrees. None of the type IIIC and IIID sites are complete and a final signature of these sites may indicate a different site orientation.

4. The following criteria were used in determining site orientations, and are depicted in figure 1.

Type I A sites - A perpendicular to the long axis of the probable guidance facility.

Type I B sites - The azimuth of the center rail of the whipbone.

All Type II sites - The long axis of the launch pad and/or the access roads.

Type IIIA and IIIB - A perpendicular to a line drawn through the the three silos.

Type IIIC - A perpendicular to a line drawn through the silo and the centers of the flanking flat-topped earth mounds.

Type IIID - The long axis of the level access to the silo.

5. For Launch sites B at Drovyanaya, and G at Svobodnyy the reciprocal of the azimuth is also given because in these instances the control bunker was constructed on the northern side of a line connecting the silos. At all other sites of these types the control bunker was constructed on the southern side of a line connecting the silos.

Declass Review by NIMA/DOD

GROUP 1
Excluded from automatic
downgrading and
declassification

5-17487

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6. At some Type IIIC and IIID sites insufficient identity of site orientation criteria precludes determination of orientation.

7. This project is considered to be complete.

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Colonel, USA
Assistant for Photographic Analysis, NPIC

Enclosures:

1 line drawing
Listing of Site Orientations

Distribution:

1-10-GMAIC/DWG (w/enc)
11-Dir/NPIC (w/o enc)
12-PAG/NPIC (w/o enc)
13-IPO/PAG/NPIC (w/o enc)
14-S&TD/PAG/NPIC (w/enc)
15-CIA/PID/NPIC (w/enc)
16-OS/NPIC (w/o enc)
17-CSD/NPIC (w/enc)
18-DIAXX-4 (w/o enc)
19-NSA/LO/NPIC (w/o enc)
20-AFNIIE-BA (w/o enc)
21-OPNAV 922Y3 (w/o enc)
22-Army/SPAD (w/o enc)
23-DIAXX-3A (w/enc)
24-DIAXX-3C (w/enc)

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SITE ORIENTATIONS

Site	Type
Aleysk	A IIIIC
	B IIIIC
	C IIIIC
	D IIIIC
	E IIIIC
	F IIIIC
Dombarovskiy	A IIIIC
	B IIIIC
	C IIIIC
	D IIIIC
	E IIIIC
Drovyanaya	A IIB
	B IIIA
	C IID
	D IID
	E IIIA
	F IIIA
	G2 IID
	G3 IID
	G6 IID
Gladkaya	A IID
	B IID
	D IIIA
Imeni Gastello	A IIIIC
	B IIIIC
	C IIIIC
	D IIIIC
	E IIIIC
	F IIIIC
Itatka	A IIB
	B IIC
	C IID

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Site	Type
Kartaly	IIIC
A	IIIC
B	IIIC
D	IIIC
E	IIIC
F	IIIC
G	IIIC
Kostroma	IIB
A	IIB
B	IIB
C	IIB
D	IIB
E	IIIA
F	IIB
G	IIB
H	IIIA
Kozelsk	IIC
A	IIC
B	IIC
D	IIC
E	IIIB
F	IIIB
Novosibirsk	IIB
A	IIIA
B	IIIA
C	IIIA
D	IIB
E	IIB
Olovyannaya	IIIA
A	IIIA
B	IIIA
C	IIIA
D1	IIIB
D2	IIIB
D3	IIIB
D4	IIIB
D5	IIIB
D6	IIIB
D7	IIIB
D8	IIIB
D9	IIIB
D10	IIIB
E1	IIIB
E2	IIIB
E3	IIIB
E5	IIIB

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	<u>Site</u>	<u>Type</u>
Omsk	A	IIIB
Perm	A	IIB
	B	IIB
	C	IIB
	D	IIB
	E	IIB
	F	IIIA
	G	IIID
	H	IIID
Plesetsk	1	IA
	2	IA
	3	IA
	4	IA
	A	IIA
	B	IIB
	C	IIIA
	D	IIC
	E	IIC
	F	IIB
	G	IIB
	H	IIB
Shadrinsk	A	IIIA
	B	IIIA
	C	IIIA
Svobodnyy	A	IIB
	B	IIB
	C	IIB
	D	IIB
	E	IIB
	F	IIB
	G	IIIA
	H	IIB

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	<u>Site</u>	<u>Type</u>
Tatishchevo	A1 A3 A5 A6	IIID IIID IIID
Teykovo	A B C D E F	IIB IIB IIB IIB IIB IIB
Tyumen	A C	IIC IIC
Uzhur	A B C D E F	IIIC IIIC IIIC IIIC IIIC IIIC
Verkhnyaya Selda	A B C D E F G H I	IIB IIA IIA IIB IIB IIIA IIIA IIB IIB

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Site	Type	Azimuth
Yedrovo	IIB IIB IID IID IIIA IID IID IIIA	25X1D
Yoshkar Ola	IIB IIB IIB IID IID IID	
Yurya	IIA IIA IIB IIB IIIA IIB IIIA IID IID IID IIIA	
Zhangiz-Tobe	IIIC IIIC IIIC IIIC IIIC IIIC	

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